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**Message :**

Re: U.S. Serial No.:

09/720,704

Filed:

Junc 16, 2000

Dear Examiner Queen:

In accordance with your telephone conversation with Mr. Tucker of earlier this afternoon, please find enclosed a copy of the Form PTO-1449 filed in the above referenced case on 15 May 2001; a copy of our return receipt postcard for the associated Information Disclosure Statement appropriately date stamped by the United States Patent and Trademark Office and copies of the English language Abstracts of the Japanese language documents submitted with the Information Disclosure Statement of 15 May 2001.

535337

**Fax**

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*Available*

Mailing Date: May 15, 2001  
Client: 70868  
Inventors: Kazuyuki Nako  
Serial No.: 09/720,704  
Filing Date: 12/29/2000

Attorney/Sec: DGC/lmr  
Docket No.: 55220  
Patent No.:  
Grant Date:

The dating stamp of the Patent and Trademark Office hereon will be taken as the date of filing of:

Information Disclosure Statement  
Form 1449 w/7 references  
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Postcard



Due Date:

61568

## PICTURE FORMING DEVICE

Patent Number: JP57191653  
Publication date: 1982-11-25  
Inventor(s): KOROKU SHIYOUICHI  
Applicant(s):: CANON KK  
Requested Patent: ☐ JP57191653  
Application JP19810077059 19810521  
Priority Number(s):  
IPC Classification: G03G15/00 ; G03G15/04  
EC Classification:  
Equivalents:

### Abstract

**PURPOSE:** To realize a clear copying for such a center bound-form original as a book, etc., by measuring the distance between the original and the original board and the angle of inclination of the original to control the position of the original board and the scanning speed and at the same time carrying out the control of the luminous intensity.

**CONSTITUTION:** The distance between an original board 1 and the original and the angle of inclination of the original are measured by means of a semiconductor laser oscillator 5 and a CCD image sensor 7 in a distance measuring circuit 16. The board 1 can move up and down by means of an original board position controller consisting of the support members 8 and 9. The measurement signal of the circuit 16 is supplied to a prescribed circuit. Then a light source 20, the scanning speed of a mirror 21 and the position of the board 1 are controlled in accordance with the distance between the original and the board 1 and the angle of inclination of the original. In addition, the luminous intensity on the original surface is measured to control the voltage of the light source 20. As a result, the reduction and the bur of a picture and a full-black picture caused by the lack of the light volume can be eliminated to obtain a clear picture.

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**ORIGINAL READER**

Patent Number: JP5161004  
Publication date: 1993-06-25  
Inventor(s): FUJII SHINICHI; others: 04  
Applicant(s):: MINOLTA CAMERA CO LTD  
Requested Patent: ☐ JP5161004  
Application JP19910349168 19911205  
Priority Number(s):  
IPC Classification: H04N1/40 ; H04N1/04 ; H04N1/10  
EC Classification:  
Equivalents:

**Abstract**

**PURPOSE:** To reproduce a picture precisely by detecting a border between an original and an original platen when reading the original so as to detect a warp of an original thereby correcting picture information in response to the result.

**CONSTITUTION:** An original read section reads an original 1 to obtain picture information, a comparator detects a border between the original 1 and an original platen 10. Moreover, the height of the original is detected based on the result of detection thereby detecting the shape of the original and the askew positioning of the original and correcting the picture information in response to the result.

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### Image reading apparatus

Patent Number: ☐ EP0720344, A3  
Publication date: 1996-07-03  
Inventor(s): NAKO KAZUYUKI (JP)  
Applicant(s):: SHARP KK (JP)  
Requested Patent: ☐ JP8181828  
Application EP19950304965 19950717  
Priority Number(s): JP19940322138 19941226  
IPC Classification: H04N1/10 ; H04N1/195  
EC Classification: H04N1/047, H04N1/10F  
Equivalents: ☐ US5774237

### Abstract

An image reading apparatus for reading a document (2) such as a book from above with the target faces thereof placed up, which allows correction of distortions of the image, without relying on the background color of the target faces of the document (2), wherein image processing means (8) detects the boundary between the document and the document-guiding means (31) (the document edge (21)) on the basis of the image read by image reading means (5) and corrects distortions of the image with reference to the

detected boundary (21). 

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**Apparatus for correcting skew, distortion and luminance when imaging books and the like**

Patent Number: ☐ US5940544  
Publication date: 1999-08-17  
Inventor(s): NAKO KAZUYUKI (JP)  
Applicant(s):: SHARP KK (JP)  
Requested Patent: ☐ JP10065877  
Application Number: US19970915978 19970821  
Priority Number(s): JP19960221943 19960823  
IPC Classification: G06K9/32  
EC Classification: H04N1/00G, H04N1/047, H04N1/401  
Equivalents: ☐ DE19736696

**Abstract**

An object of the invention is to correct a distortion due to inclination of a document and to correct a luminance. First, an edge detection section detects an edge of a document image from a picture obtained by imaging the document. Then, a skew detection section detects a skew of the document from the edge. A rotation correction section causes the picture to rotate on the basis of the skew detected by the skew detection section. Subsequently, the edge detection section again extracts a document image edge from the picture rotated by the rotation correction section. Further, a height calculation section calculates from the edge a height of the document. Simultaneously, a magnification calculation section calculates from the edge a magnification of the picture. Next, a distortion correction section corrects a distortion by magnification/reduction of the picture rotated by the rotation correction section on the basis of the document height and the magnification. Lastly, a luminance correction section corrects the luminance of pixels of the distortion-corrected picture. Whereby, even when the document suffers from skew added thereto, distortion correction and luminance correction can be performed.

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